



# CITY OF DES MOINES

## 2016 Citywide Pavement Condition Inventory

*“Roadways are the economic lifeline of a community. They provide the medium for communities to grow and commerce to flourish; as such they are an investment to be maintained.”*

### **Current Activity**

IMS Infrastructure Management Services has been contracted by the City of Des Moines to conduct a pavement condition survey on all streets within the City. The survey will be completed using a specialized van and equipment:

- A one-ton 2014 Ford Econoline van, referred to as a Laser Road Surface Tester (RST). The RST, operated by IMS personnel, is equipped with a modified front bumper with an array of instruments such as lasers, digital video cameras and GPS.

The surveys will be conducted beginning June 16<sup>th</sup> and last approximately 3-4 days.

### **Asset Management System and Services**

Ever since paved roadways became the cornerstone of mobility for urban development, public works managers have been building roads and installing traffic signs in an ongoing effort to create safe, efficient transportation networks. Along with the creation of these urban corridors, as-built records and hardcopy paper files have also been developed. As the roadway networks and infrastructure became more extensive, so did the need for information on these assets. Thus, the agencies responsible for these assets have also been seeking efficient and affordable ways to collect accurate and timely pavement condition and right of way inventory data. Answering basic questions such as “how many signs do I have?”, or “what condition are my pavements in?” form a never ending task.

In order to develop long-term maintenance plans and budgets, the City has engaged with the Tempe, AZ based firm, IMS Infrastructure Management Services LLC, to complete a detailed inventory and condition rating of all roadways owned by the City. The data is collected and loaded into an asset management program specifically designed to assist the municipalities to develop long-term rehabilitation plans and budgets. The field surveys are completed using specialized surveying equipment.

The process will be to inventory and collect pavement performance data using a device known as a Laser Road Surface Tester or RST. This device measures pavement roughness, rutting, cracking and other surface distresses as it travels down the roadway. It will also be used to collect digital video and Global Positioning Satellite (GPS) information for GIS integration. The RST is a 2014 one-ton Ford van with up to 5 inside mounted cameras and GPS receivers and a modified front bumper. Operated by three field technicians, the RST travels at posted speed limits and will survey each roadway at least once.

